



COPIES OF PAPERS  
CHRONOLOGICALLY FILED

**EXPEDITED PROCEDURE - EXAMINING GROUP 8597**

RECEIVED  
AUG 05 2002  
TECHNOLOGY CENTER 2800  
**PATENT**

S/N 09/751,610

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	William A. Harris	Examiner:	Cassandra Cox
Serial No.:	09/751,610	Group Art Unit:	2816
Filed:	December 29, 2000	Docket:	H16-26054 (256.058US1)
Title:	PRECISION PHASE GENERATOR		

**AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116**

Box AF  
Commissioner for Patents  
Washington, D.C. 20231

In response to the final Office Action mailed June 4, 2002, Applicant proposes amendment to the claims as follows:

**IN THE CLAIMS**

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect cancellation of claim 13 and amendment of previously pending claims 4, 11 and 14-17. The specific amendments proposed to individual claims are detailed in the following marked up set of claims.

1. A circuit for dividing an input clock signal into N clock signals having a relative phase separation of  $360^\circ/2N$ , where N is a positive integer, the circuit comprising:  
a phase lock loop circuit receiving an input signal having a frequency  $F_0$  and providing an output signal having a frequency  $2NF_0$ ; and  
a Johnson counter having N stages connected to receive as an input the output signal of the phase lock loop circuit and providing an output signal as an error signal to the phase lock loop circuit; said Johnson counter also connected for providing at least two output signals from at least two of the N stages of the Johnson counter as clock signals each having a phase displaced from the phase of the other  $360/2N^\circ$ .
2. The circuit of claim 1 wherein  $N=4$ .

#8/B  
H/E  
Andt  
J. McInellan  
8/9/02  
gnt  
Dm Lb  
8/28/02